

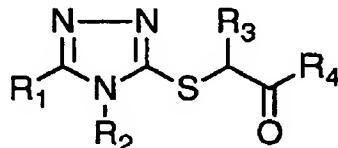
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AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions and listings of claims in the application.

Listing of Claims

1. (Currently amended) A compound of Formula I



Formula I

wherein:

R₁, is thiophene;

R₂ and R₄ are independently selected from the group H, C₁-C₈ alkyl, phenyl, substituted phenyl, benzyl, and substituted benzyl, heteroaryl, substituted heteroaryl, heteroarylmethylene, and substituted heteroarylmethylene; and

R₃ is H, C₁-C₈ alkyl, heteroalkyl, cycloalkyl, or aryl, heteroaryl;

with the proviso that the compound is not:

~~1-(4-methoxyphenyl)-2-[(4-phenyl-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl)thio]ethanone (6);~~
~~1-(4-chlorophenyl)-2-[(4-phenyl-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl)thio]ethanone (7);~~
~~1-(4-fluorophenyl)-2-[(4-phenyl-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl)thio]ethanone (11);~~
~~1-phenyl-2-[(4-phenyl-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl)thio]ethanone (12);~~
~~2-[(5-(4-methylphenyl)-4-phenyl-4H-1,2,4-triazol-3-yl)thio]-1-phenylethanone (21);~~
~~1-(4-methoxyphenyl)-2-[(5-(4-methoxyphenyl)-4-phenyl-4H-1,2,4-triazol-3-yl)thio]ethanone (27); or~~
~~1-(4-methoxyphenyl)-2-[(4-(4-methylphenyl)-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl)thio]ethanone (39).~~

2. (Currently amended) A compound of Claim 1 selected from the group:

- a) ~~1-(1,1'-biphenyl-4-yl)-2-[(4-phenyl-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl)thio]ethanone;~~
- b) ~~N-(2-nitro-4-[(4-phenyl-5-pyridin-4-yl-4H-1,2,4-triazol-3-~~
~~yl)thio]acetyl)phenylacetamide;~~
- c) ~~N-(4-[(2-[(4-phenyl-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl)thio]acetyl)phenyl]acetamide;~~
- d) ~~1-(2,4-dichlorophenyl)-2-[(4-phenyl-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl)thio]ethanone;~~
- e) ~~1-(2,3-dihydro-1,4-benzodioxin-6-yl)-2-[(4-phenyl-5-pyridin-4-yl-4H-1,2,4-triazol-3-~~
~~yl)thio]ethanone;~~

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f) ~~6 [{(4 phenyl 5 pyridin 4 yl 4H 1,2,4 triazol 3 yl)thio}acetyl] 1,3 benzoxazol 2(3H)-one;~~

g) ~~1 (4 methoxyphenyl) 2 [{5 (4 methylphenyl) 4 phenyl 4H 1,2,4 triazol 3 yl}thio]ethanone;~~

h) ~~1 (4 fluorophenyl) 2 [{5 (4 methylphenyl) 4 phenyl 4H 1,2,4 triazol 3 yl}thio]ethanone;~~

i) ~~1 (2,4 dichlorophenyl) 2 [{5 (4 methylphenyl) 4 phenyl 4H 1,2,4 triazol 3 yl}thio]ethanone;~~

j) ~~1 (3,4 dihydroxyphenyl) 2 [{5 (4 methylphenyl) 4 phenyl 4H 1,2,4 triazol 3 yl}thio]ethanone;~~

k) ~~1 (2,4 dichlorophenyl) 2 [{5 (4 methoxyphenyl) 4 phenyl 4H 1,2,4 triazol 3 yl}thio]ethanone;~~

l) ~~1 (4 methoxyphenyl) 2 [{4 (4 methoxyphenyl) 5 pyridin 4 yl 4H 1,2,4 triazol 3 yl}thio]ethanone;~~

m) ~~1 (4 chlorophenyl) 2 [{4 (4 methoxyphenyl) 5 pyridin 4 yl 4H 1,2,4 triazol 3 yl}thio]ethanone;~~

n) ~~1 (4 fluorophenyl) 2 [{4 (4 methoxyphenyl) 5 pyridin 4 yl 4H 1,2,4 triazol 3 yl}thio]ethanone;~~

o) ~~1 (2,4 dichlorophenyl) 2 [{4 (4 methoxyphenyl) 5 pyridin 4 yl 4H 1,2,4 triazol 3 yl}thio]ethanone;~~

p) ~~1 (2,3 dihydro 1,4 benzodioxin 6 yl) 2 [{4 (4 methoxyphenyl) 5 pyridin 4 yl 4H 1,2,4 triazol 3 yl}thio]ethanone;~~

q) ~~1 (2,4 dichlorophenyl) 2 [{4 (4 methylphenyl) 5 pyridin 4 yl 4H 1,2,4 triazol 3 yl}thio]ethanone;~~

r) ~~2 [{4 (4 chlorophenyl) 5 pyridin 4 yl 4H 1,2,4 triazol 3 yl}thio] 1 (4 methoxyphenyl)ethanone;~~

s) ~~2 [{4 (4 chlorophenyl) 5 pyridin 4 yl 4H 1,2,4 triazol 3 yl}thio] 1 (2,4 dichlorophenyl)ethanone;~~

t) ~~2 [{4 (2 fluorophenyl) 5 pyridin 4 yl 4H 1,2,4 triazol 3 yl}thio] 1 (4 methoxyphenyl)ethanone;~~

u) ~~1 (2,4 dichlorophenyl) 2 [{4 (2 fluorophenyl) 5 pyridin 4 yl 4H 1,2,4 triazol 3 yl}thio]ethanone;~~

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- v) 1-(4-methoxyphenyl)-2-[(4-methoxyphenyl)-5-thien-3-yl-4H-1,2,4-triazol-3-yl]thio}ethanone; and
- w) 1-(4-fluorophenyl)-2-[(4-methoxyphenyl)-5-thien-3-yl-4H-1,2,4-triazol-3-yl]thio}ethanone.

3. (Currently amended) The A method of treating parasitism by insects or helminths comprising administering to a mammal in need of such treatment a therapeutically effective amount of a compound of Formula Iclaim 1 or a pharmaceutically acceptable salt thereof.

4. (Currently amended) The method of Claim 3 wherein the compound is:

- a) 1-(4-methoxyphenyl)-2-[(4-phenyl-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl)thio]ethanone;
- b) 1-(4-chlorophenyl)-2-[(4-phenyl-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl)thio]ethanone;
- c) 1-(1,1'-biphenyl-4-yl)-2-[(4-phenyl-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl)thio]ethanone;
- d) N-(2-nitro-4-[(4-phenyl-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl)thio]acetyl)phenylacetamide;
- e) N-(4-[2-[(4-phenyl-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl)thio]acetyl]phenyl)acetamide;
- f) 1-(4-fluorophenyl)-2-[(4-phenyl-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl)thio]ethanone;
- g) 1-phenyl-2-[(4-phenyl-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl)thio]ethanone;
- h) 1-(2,4-dichlorophenyl)-2-[(4-phenyl-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl)thio]ethanone;
- i) 1-(2,3-dihydro-1,1-benzodioxin-6-yl)-2-[(4-phenyl-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl)thio]ethanone;
- j) 6-[(4-phenyl-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl)thio]acetyl]-1,3-benzoxazol-2(3H)-one;
- k) 1-(4-methoxyphenyl)-2-[(5-(4-methylphenyl)-4-phenyl-4H-1,2,4-triazol-3-yl)thio]ethanone;
- l) 1-(4-fluorophenyl)-2-[(5-(4-methylphenyl)-4-phenyl-4H-1,2,4-triazol-3-yl)thio]ethanone;
- m) 2-[(5-(4-methylphenyl)-4-phenyl-4H-1,2,4-triazol-3-yl)thio]-1-phenylethanone;
- n) 1-(2,4-dichlorophenyl)-2-[(5-(4-methylphenyl)-4-phenyl-4H-1,2,4-triazol-3-yl)thio]ethanone;
- o) 1-(3,4-dihydroxyphenyl)-2-[(5-(4-methylphenyl)-4-phenyl-4H-1,2,4-triazol-3-yl)thio]ethanone;
- p) 1-(4-methoxyphenyl)-2-[(5-(4-methoxyphenyl)-4-phenyl-4H-1,2,4-triazol-3-yl)thio]ethanone;

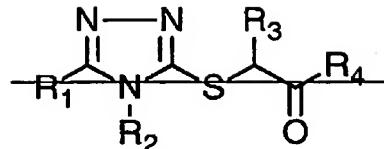
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- q) ~~1-(2,4-dichlorophenyl)-2-[(5-(1-methoxyphenyl)-4-phenyl-4H-1,2,4-triazol-3-yl]thio}ethanone;~~
- r) ~~1-(4-methoxyphenyl)-2-[(4-(4-methoxyphenyl)-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl]thio}ethanone;~~
- s) ~~1-(1-chlorophenyl)-2-[(4-(4-methoxyphenyl)-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl]thio}ethanone;~~
- t) ~~1-(4-fluorophenyl)-2-[(4-(4-methoxyphenyl)-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl]thio}ethanone;~~
- u) ~~1-(2,4-dichlorophenyl)-2-[(1-(1-methoxyphenyl)-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl]thio}ethanone;~~
- v) ~~1-(2,3-dihydro-1,4-benzodioxin-6-yl)-2-[(4-(4-methoxyphenyl)-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl]thio}ethanone;~~
- w) ~~1-(4-methoxyphenyl)-2-[(4-(4-methylphenyl)-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl]thio}ethanone;~~
- x) ~~1-(2,4-dichlorophenyl)-2-[(4-(4-methylphenyl)-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl]thio}ethanone;~~
- y) ~~2-[(4-(4-chlorophenyl)-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl]thio}-1-(4-methoxyphenyl)ethanone;~~
- z) ~~2-[(4-(4-chlorophenyl)-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl]thio}-1-(2,4-dichlorophenyl)ethanone;~~
- aa) ~~2-[(4-(2-fluorophenyl)-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl]thio}-1-(4-methoxyphenyl)ethanone;~~
- bb) ~~1-(2,4-dichlorophenyl)-2-[(4-(2-fluorophenyl)-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl]thio}ethanone;~~
- cc) 1-(4-methoxyphenyl)-2-[(4-(4-methoxyphenyl)-5-thien-3-yl-4H-1,2,4-triazol-3-yl]thio}ethanone; and/or
- dd) 1-(4-fluorophenyl)-2-[(4-(4-methoxyphenyl)-5-thien-3-yl-4H-1,2,4-triazol-3-yl]thio}ethanone.

5. (Currently amended) A composition containing a compound of claim 1 or a pharmaceutically acceptable salt thereof, Formula I

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Formula 1

wherein:

R₁, R₂ and R₄ are independently selected from the group H, C₁-C₈ alkyl, phenyl, substituted phenyl, benzyl, substituted benzyl, heteroaryl, substituted heteroaryl, heteroaryl methylene, and substituted heteroaryl methylene;

R₃ is H, C₁-C₈ alkyl, heteroalkyl, cycloalkyl, aryl, heteroaryl.

6. (Currently amended) A composition of Claim 5 wherein the compound is:

- a) 1-(4-methoxyphenyl)-2-[(4-phenyl-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl)thio]ethanone;
- b) 1-(4-chlorophenyl)-2-[(4-phenyl-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl)thio]ethanone;
- c) 1-(1,1'-biphenyl-4-yl)-2-[(4-phenyl-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl)thio]ethanone;
- d) N-(2-nitro-4-[(4-phenyl-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl)thio]acetyl)phenylacetamide;
- e) N-(1-[2-[(4-phenyl-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl)thio]acetyl]phenyl)acetamide;
- f) 1-(4-fluorophenyl)-2-[(4-phenyl-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl)thio]ethanone;
- g) 1-phenyl-2-[(4-phenyl-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl)thio]ethanone;
- h) 1-(2,4-dichlorophenyl)-2-[(4-phenyl-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl)thio]ethanone;
- i) 1-(2,3-dihydro-1,4-benzodioxin-6-yl)-2-[(4-phenyl-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl)thio]ethanone;
- j) 6-[(4-phenyl-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl)thio]acetyl-1,3-benzoxazol-2(3H)-one;
- k) 1-(4-methoxyphenyl)-2-[(5-(4-methylphenyl)-4-phenyl-4H-1,2,4-triazol-3-yl)thio]ethanone;
- l) 1-(4-fluorophenyl)-2-[(5-(4-methylphenyl)-4-phenyl-4H-1,2,4-triazol-3-yl)thio]ethanone;
- m) 2-[(5-(4-methylphenyl)-4-phenyl-4H-1,2,4-triazol-3-yl)thio]-1-phenylethanone;
- n) 1-(2,4-dichlorophenyl)-2-[(5-(4-methylphenyl)-4-phenyl-4H-1,2,4-triazol-3-yl)thio]ethanone;
- o) 1-(3,4-dihydroxyphenyl)-2-[(5-(1-methylphenyl)-4-phenyl-4H-1,2,4-triazol-3-yl)thio]ethanone;

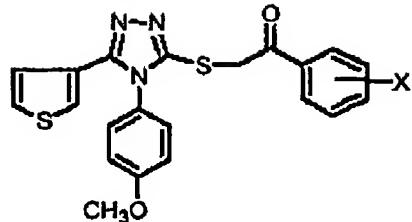
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- p) ~~1-(4-methoxyphenyl)-2-[(5-(4-methoxyphenyl)-4-phenyl-4H-1,2,4-triazol-3-yl]thio}ethanone;~~
- q) ~~1-(2,4-dichlorophenyl)-2-[(5-(4-methoxyphenyl)-4-phenyl-4H-1,2,4-triazol-3-yl]thio}ethanone;~~
- r) ~~1-(4-methoxyphenyl)-2-[(4-(4-methoxyphenyl)-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl]thio}ethanone;~~
- s) ~~1-(4-chlorophenyl)-2-[(4-(4-methoxyphenyl)-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl]thio}ethanone;~~
- t) ~~1-(4-fluorophenyl)-2-[(4-(4-methoxyphenyl)-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl]thio}ethanone;~~
- u) ~~1-(2,4-dichlorophenyl)-2-[(4-(4-methoxyphenyl)-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl]thio}ethanone;~~
- v) ~~1-(2,3-dihydro-1,4-benzodioxin-6-yl)-2-[(4-(4-methoxyphenyl)-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl]thio}ethanone;~~
- w) ~~1-(4-methoxyphenyl)-2-[(1-(4-methylphenyl)-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl]thio}ethanone;~~
- x) ~~1-(2,4-dichlorophenyl)-2-[(4-(4-methylphenyl)-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl]thio}ethanone;~~
- y) ~~2-[(4-(4-chlorophenyl)-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl]thio}-1-(4-methoxyphenyl)ethanone;~~
- z) ~~2-[(4-(4-chlorophenyl)-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl]thio}-1-(2,4-dichlorophenyl)ethanone;~~
- aa) ~~2-[(4-(2-fluorophenyl)-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl]thio}-1-(4-methoxyphenyl)ethanone;~~
- bb) ~~1-(2,4-dichlorophenyl)-2-[(4-(2-fluorophenyl)-5-pyridin-4-yl-4H-1,2,4-triazol-3-yl]thio}ethanone;~~
- cc) ~~1-(4-methoxyphenyl)-2-[(4-(4-methoxyphenyl)-5-thien-3-yl-4H-1,2,4-triazol-3-yl]thio}ethanone; and/or~~
- dd) ~~1-(4-fluorophenyl)-2-[(4-(4-methoxyphenyl)-5-thien-3-yl-4H-1,2,4-triazol-3-yl]thio}ethanone.~~

7. (New) A compound of claim 1 of the following formula:

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wherein X is 4-OMe or X is 4-F.

8. (New) A method of treating parasitism by insects or helminths comprising administering to a mammal in need of such treatment a therapeutically effective amount of a compound of claim 7 or a pharmaceutically acceptable salt thereof.
9. (New) A composition containing a compound of claim 7 or a pharmaceutically acceptable salt thereof.
10. (New) A method of treating parasitism by insects or helminths comprising administering to a mammal in need of such treatment a therapeutically effective amount of a composition of claim 9.

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